## 

## WHAT IS CLAIMED IS:

1	1. An anastomosis device comprising:
2	a component configured to be secured to a vessel and having an opening adapted
3	to be placed in fluid communication with a lumen of the vessel;
4	wherein the component comprises a material having the ability to produce or be
5	attracted by a magnetic field; and
6	wherein the component is configured to be secured to the vessel substantially
7	without any fixation structure being present in the vessel lumen.
1	2. The device of claim 1, wherein the component is configured to be secured
2	to the vessel without any fixation structure being present in the vessel lumen.
1	The device of claim 1, wherein the component has a surface configured to
2	be secured to the vessel wall by adhesive.
1	4. An anastomosis device comprising:
2	a component having a portion configured to be adhered to a wall of a vessel by
3	biocompatible adhesive to define a blood flow path into the vessel; and
4	wherein the component is configured to be secured to the vessel wall by an
5	additional, nonadhesive-based attachment mechanism.
1	5. The device of claim 4, wherein the portion of the component and the
2	attachment mechanism are configured to secure the component to the vessel without any fixation
3	structure being present in the vessel lumen.
1	6. The device of claim 4, wherein the component comprises a material
2	having the ability to produce or be attracted by a magnetic field.
1	7. An anastomosis device comprising:
2	a component configured to be secured to a vessel and having an opening adapted
3	to be placed in fluid communication with a lumen of the vessel;

4	wherein the component comprises a material naving the ability to produce or be
5	attracted by a magnetic field; and
6	wherein the component has a portion that is at least partially curved.
1	8. The device of claim 7, wherein the component is configured to be secured
2	to the vessel wall by an adhesive.
1	9. A method for forming an anastomosis comprising:
2	(a) providing a first vessel with a first anastomotic component;
3	(b) providing a second vessel with a second anastomotic component; and
4	(c) coupling the first and second anastomotic components to place their
5	lumens in fluid communication;
6	(d) wherein at least one of steps (a) and (b) is performed at least in part by
7	securing the anastomotic component to the vessel using adhesive.
1	10. The method of claim 9, wherein step (c) is performed at least in part by
<u>.</u> 2	using magnetic force to couple the anastomotic components.
L	
ļ	
<u> </u>	
]	